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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/522,553	02/01/2005	Motonori Miyakawa	Q86020	8524
23373 7590 01/24/2008 SUGHRUE MION, PLLC			EXAMINER	
2100 PENNSYLVANIA AVENUE, N.W.			DESAI, RITA J	
SUITE 800 WASHINGTO	N DC 20037	ART UNIT	PAPER NUMBER	
W. M.			1625	
			MAIL DATE	DELIVERY MODE
			01/24/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/522,553	MIYAKAWA, MOTONORI				
Office Action Summary	Examiner	Art Unit				
	Rita J. Desai	1625				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING D. Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNIC 36(a). In no event, however, may a re will apply and will expire SIX (6) MONTS, cause the application to become ABA	ATION. bly be timely filed HS from the mailing date of this communication. INDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on <u>06 N</u>	ovember 2007.					
,	-					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	±x paπe Quayle, 1935 C.D.	11, 453 O.G. 213.				
Disposition of Claims						
4) ☐ Claim(s) 1-3,5 and 6 is/are pending in the apple 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-3, 5, 6 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	wn from consideration.					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 10.	epted or b) objected to be drawing(s) be held in abeyand tion is required if the drawing(s	e. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Aprity documents have been up (PCT Rule 17.2(a)).	plication No eceived in this National Stage `				
Attachment(s)	_					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 10/11/07. 	Paper No(s	nmary (PTO-413) /Mail Date ormal Patent Application -				

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DETAILED ACTION

Claims 4 and 7-8 are canceled. Claims 9-16 are withdrawn as being directed to a non-elected invention.

Claims 1-3, and 5-6 are all the pending claims that are being examined in this application.

The rejection the claims under 35 USC 112 second para has been withdrawn as applicants have amended the claims.

The rejection of the claims under 35 USC 112 first paragraph however has not been withdrawn.

The amended claims still include a large scope. In view of applicants own arguments and declaration indicating the difference in the activity, and the unexpected results, the large scope of R2 is not enabled.

The reasoning for the 103 and double patenting is contradictory to applicants scope. On one hand applicants show that the slight change of the double bond has unexpected properties and on the other applicants R2 includes a variety of groups whose activity is not shown nor any guidance provided.

The rejection is repeated here.

Claims 1-8 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for R2 to be a phenyl, pyridyl and furan, and C-C- alkyl, and compounds as given in table 1, does not reasonably provide enablement for R2 to be any hetero. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make the invention commensurate in scope with these claims.

In re Wands, 858 F.2d 731,737, 8 USPQ2d 1400, 1404 (Fed. Cir. 1988).

- 1) The breadth of the claims: The instant claims encompass many compounds from an aromatic carbocyclic moiety to an aromatic carbocyclic moiety having many large electron withdrawing and bulky groups substituted on it or to a moiety having many heterocyclic rings. These compounds cover a very wide range.
- 2) The nature of the invention: The invention is a substituted compound that has pharmaceutical use.
- 3) The state of the prior art: The state of the prior art is that the drugs and the enzymes react in a lock and key mechanism and the structure of the compound has to be specific. Even a difference of a methyl group verses a hydrogen changes the properties altogether. A good example is a theophylline verses caffeine. They differ by just a methyl group but one of them has a pharmaceutical use as a bronchodilator. There is no absolute predictability and no established correlation between the different substitutions on a core that they would all behave in the exact

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same way. The existence of these obstacles establishes that the contemporary knowledge in the art would prevent one of ordinary skill in the art from accepting any therapeutic regimen on its face.

Also The availability of the starting material that is needed to prepare the invention as claimed is an issue As per MPEP 2164.01 (b):

A key issue that can arise when determining whether the specification is enabling is whether the starting materials or apparatus necessary to make the invention are available. In the biotechnical area, this is often true when the product or process requires a particular strain of microorganism and when the microorganism is available only after extensive screening. The Court in In re

Ghiron, 442 F.2d 985,991,169 USPQ 723,727 (CCPA 1971), made clear that if the practice of a method requires a particular apparatus, the application must provide a sufficient disclosure of the apparatus if the apparatus is not readily available. The same can be said if certain chemicals are required to make a compound or practice a chemical process. In re Howarth, 654 F.2d 103, 105, 210 USPQ 689, 691 (CCPA 1981).

- 4) The level of one of ordinary skill: The ordinary artisan is highly skilled.
- 5) The level of predictability in the art: It is noted that the pharmaceutical art is unpredictable, requiring each embodiment to be individually assessed for physiological activity. In re Fisher, 427 F. 2d 833, 166 USPQ 18(CCPA 1970) indicates that the more unpredictable an area is, the more specific enablement is necessary in order to satisfy the statue. The level of unpredictability is in the art is very high. The compounds which differ by a methyl group also show different properties, for e.g. theophylline and caffeine. One of them is a bronchodilator and they differ only by a methyl group.
- 6) The amount of direction provided by the inventor: The inventor provides very little direction in the instant specification. There are no examples with the R being hetero cyclic groups other than pyridyl and furan and also there is some Relative Binding Affinity data with respect to bicalutamide a antiandrogen agent is provided in table 3, for 9 compounds to show that these compounds do indeed have pharmaceutical activity. Also there are no examples of compounds with the vague substitutions of any cycloalkyl 3-7 carbon atoms, aralkyl group 7-9 carbon atoms, hetero aryl.
- 7) The existence of working examples: The instant specification does not have any working examples with other substituents and hetero groups, Also the substitutions such as any cycloalkyl 3-7 carbon atoms, aralkyl group 7-9 carbon atoms, hetero aryl.
- 8) The quantity of experimentation needed to make or use the invention based on the content of the disclosure: Since there are no working examples with respect to the vaguely described substitutions and groups the amount of experimentation is very high and burdensome.

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Taking the above eight factors into consideration, it is not seen where the instant specification enables the ordinary artisan to make and/or use the instantly claimed invention.

Genetech Inc Vs Nova Nordisk 42 USPQ 2d 1001.

"A patent is not a hunting license. It is not a reward for search but compensation for its successful conclusion and patent protection is granted in return for an enabling disclosure of an invention, not for vague intimations of general ideas that may or may not be workable."

MPEP 2164.01(a) states, "A conclusion of lack of enablement means that,

based on the evidence regarding each of the above factors, the specification, at the time the application was flied, would not have taught one skilled in the art how to make and/or use the full scope of the claimed invention without undue experimentation. In re Wright, 999 F.2d 1557,1562, 27 USPQ2d 1510, 1513 (Fed. Cir. 1993)." That conclusion is clearly justified here. Thus, undue experimentation will be required to practice Applicants' invention.

The rejections under 35 USC 103 as being obvious over WO 01/27086 Hanada and also the Double Patenting rejections over US 7,037,919 still stands. The unexpected result is drawn to only one compound. The prior art has several substituted phenyls and applicants have not shown unexpected results for those compounds.

Conclusion

The claims 1-8 still stand rejected.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

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CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rita J. Desai whose telephone number is 571-272-0684. The examiner can normally be reached on Monday - Friday, flex time..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Janet Andres can be reached on 571-272-0867. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Rita J. Desai Primary Examiner Art Unit 1625

Phonos

R.D. January 22, 2008